

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1-69. (Cancelled).

70. (Previously Presented) A computer-implemented method of asynchronously transferring a plurality of data objects, the method comprising:

transmitting, from a client to a host, a request data frame for a data transfer session, the frame including a transfer type and a plurality of segments that each identify one of the data objects to be transferred;

receiving, from the host, a plurality of identifiers assigned by the host, each identifier corresponding to one of the data objects to be transferred; and

receiving, at either the client or the host, a transfer data frame including at least one identifier and at least a portion of a corresponding data object, wherein the identifier is

(a) used by the host to store the portion of the data object in a storage device when the transfer data frame is received at the host, or

(b) used by the client to identify a transfer session corresponding to the portion of the data object when the transfer data frame is received at the client.

71. (Previously Presented) The method of claim 70, wherein the transfer type is a download.

72. (Previously Presented) The method of claim 70, wherein the transfer type is an upload.

73. (Previously Presented) The method of claim 70, further comprising repeating the data frame transfers until the plurality of data objects have been transferred.

74. (New) The method of claim 73, further comprising interleaving the receiving of the transfer data frame corresponding to one data object with other transfer data frames corresponding to another data object.

75. (New) The method of claim 73, further comprising receiving, from the host, a frame count that indicates the number of data frames that the client device can transfer without request for more data.

76. (New) The method of claim 73, further comprising receiving, from the host, routing information to handle each of the plurality of data objects.

77. (New) The method of claim 73, wherein the repeating of the data frame transfers comprises transferring at least one end data frame comprising a command

sequence indicating the last portion of data of the transfer session for at least one data object.

78. (New) The method of claim 73, wherein at least two sequential transfers of a data frame include transfers of frames with different identifiers.

79. (New) The method of claim 70, wherein the identifier is further used by the client to identify the type of the data object in the transfer data frame when the transfer data frame is received at the client.

80. (New) A computer-implemented method of transferring a plurality of data objects with a client device, the method comprising:

transmitting, to a host, a request data frame for a data transfer session, the frame including a transfer type and a plurality of segments that each identify one of the data objects to be transferred;

receiving a plurality of identifiers assigned by the host, each identifier corresponding to one of the data objects to be transferred;

when the transfer type is an upload, transmitting an upload data frame including at least one identifier and at least a portion of a corresponding data object, the identifier is used by the host to store the portion of the data object in a storage device; and

when the transfer type is a download, receiving a download data frame including at least one identifier and at least a portion of a corresponding data object, the identifier is used by the client to identify the type of data object in the download data frame.

81. (New) The method of claim 79, further comprising transferring the upload data frames or the download data frames until the plurality of data objects have been transferred.

82. (New) The method of claim 81, further comprising interleaving the transferring of the upload data frames or the download data frames corresponding to one data object with other transfer data frames corresponding to another data object.

83. (New) The method of claim 81, wherein the identifier is used by the client to identify a transfer session corresponding to the portion of the data object when the download data frame is received at the client.

84. (New) The method of claim 83, further comprising interleaving the transferring of the upload data frames or the download data frames with transferring upload data frames or download data frames corresponding to a different transfer session, respectively.

85. (New) The method of claim 83, further comprising interleaving the transferring of the upload data frames or the download data frames with transferring download data frames or upload data frames corresponding to a different transfer session, respectively.

86. (New) The method of claim 81, further comprising receiving, from the host, a frame count that indicates the number of data frames that the client device can transfer without request for more data.

87. (New) A computer-implemented method of transferring a plurality of data objects at a host, the method comprising:

receiving, from a client device, a request data frame for a data transfer session, the frame including a transfer type and a plurality of segments that each identify one of the data objects to be transferred;

assigning a plurality of identifiers, each identifier corresponding to one of the data objects to be transferred;

transferring, to the client device, the plurality of identifiers;

when the transfer type is an upload, receiving an upload data frame including at least one identifier and at least a portion of a corresponding data object, the identifier used to store the portion of the data object in a storage device at the host;

when the transfer type is a download, transmitting a download data frame including at least one identifier and at least a portion of a corresponding data object, the identifier is used by the client to identify the type of the data object in the download data frame; and

repeating the data frame transfers until the plurality of data objects have been transferred.

88. (New) The method of claim 87, further comprising allocating host resources for the data transfer session.
89. (New) The method of claim 87, further comprising transmitting routing information for handling each of the plurality of data objects.
90. (New) The method of claim 87, wherein at least two sequential transfers of a data frame include transfers of frames with different identifiers.
91. (New) The method of claim 87, wherein the identifier is used by the client to identify a transfer session corresponding to the portion of the data object when the download data frame is received at the client.
92. (New) The method of claim 91, further comprising interleaving the transferring of the upload data frames or the download data frames with transferring upload data frames or download data frames corresponding to a different transfer session, respectively.
93. (New) The method of claim 91, further comprising interleaving the transferring of the upload data frames or the download data frames with transferring download data frames or upload data frames corresponding to a different transfer session, respectively.

94. (New) A non-transitory computer readable medium encoding a set of instructions to asynchronously transfer a plurality of data objects, the instructions being executable by at least one processor to cause the processor to perform the following steps:

transmitting, from a client to a host, a request data frame for a data transfer session, the frame including a transfer type and a plurality of segments that each identify one of the data objects to be transferred;

receiving, from the host, a plurality of identifiers assigned by the host, each identifier corresponding to one of the data objects to be transferred; and

receiving, at either the client or the host, a transfer data frame including at least one identifier and at least a portion of a corresponding data object, wherein the identifier is

(a) used by the host to store the portion of the data object in a storage device when the transfer data frame is received at the host, or

(b) used by the client to identify the type of the data object in the transfer data frame when the transfer data frame is received at the client